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(54) Title: PRODUCTION AND USE OF OCTAFLUOROPROPANE

(57) Abstract: Octafluoropropane is produced by a process comprising a step (1) of reacting hexafluoropropene with hydrogen flu-
oride in a gas phase at a temperature of from 150 to 450°C in the presence of a fluorination catalyst to obtain 2H-heptafluoropropane
and a step (2) of reacting 2H-heptafluoropropane obtained in step (1) with fluorine gas in a gas phase at a temperature of from 250
to 500°C in the absence of a catalyst to obtain octafluoropropane. High-purity octafluoropropane is obtained which can be used in a
process for producing a semiconductor device.